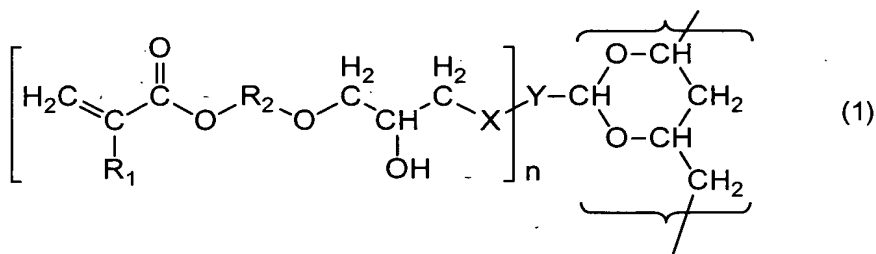
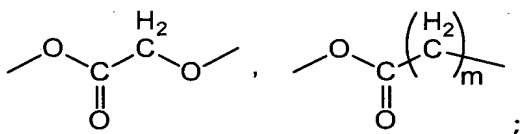


Claims

1. (Amended) A saponified poly(vinyl acetate)-based photosensitive resin characterized by having a structural unit represented by formula (1):



(wherein  $\text{R}_1$  represents H or Me;  $\text{R}_2$  represents a linear or branched C2-C10 alkylene group;  $n$  is an integer of 1 to 3;  $\text{X}$  represents



$m$  is an integer of 0 to 6; and  $\text{Y}$  represents an aromatic ring or a single bond).

2. A photosensitive resin composition characterized by comprising a photosensitive resin according to claim 1.

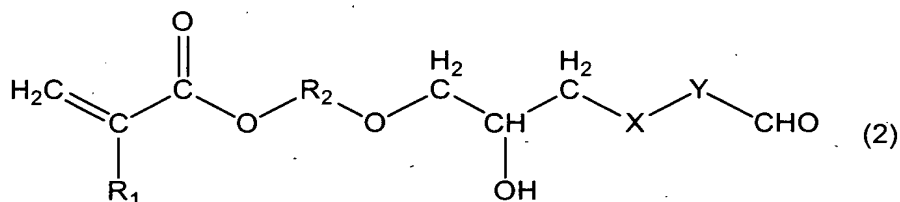
3. A photosensitive resin composition according to claim 2, which further contains a photopolymerization initiator.

4. A photosensitive resin composition according to claim 2 or 3, which further contains water serving as a solvent.

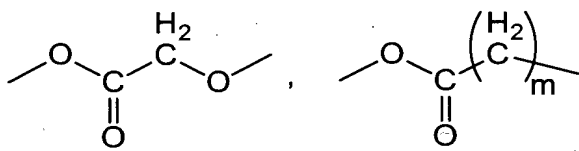
5. A method for forming a hydrogel characterized by

comprising subjecting a photosensitive resin composition as recited in any of claims 2 to 4 to photopolymerization.

6. (Amended) A compound represented by formula (2):

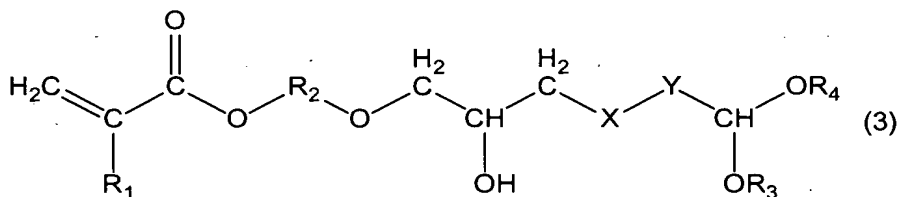


(wherein R<sub>1</sub> represents H or Me; R<sub>2</sub> represents a linear or branched C<sub>2</sub>-C<sub>10</sub> alkylene group; X represents

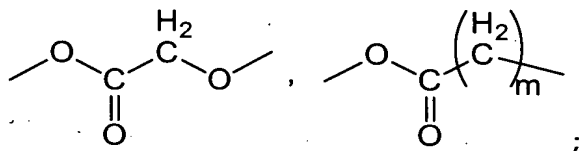


m is an integer of 0 to 6; and Y represents an aromatic ring or a single bond).

7. (Amended) A compound represented by formula (3):



(wherein R<sub>1</sub> represents H or Me; R<sub>2</sub> represents a linear or branched C<sub>2</sub>-C<sub>10</sub> alkylene group; X represents



m is an integer of 0 to 6; Y represents an aromatic ring or a single bond; and each of R<sub>3</sub> and R<sub>4</sub> represents a C<sub>1</sub>-C<sub>3</sub> alkyl group).